

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/019411

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl' H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int. Cl' H04L12/56, 12/28Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Technical Report of IEICE: IN, CO,
IPSJ, SIG, technical reports: DPS

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| X | Technical Report of IEICE CQ2001-101, 01 February, 2002 (01.02.02), Yoshihiro GOTO et al., "Methods on Logical Network Construction in Peer-to-Peer Services Based on Traffic Measurements" | 1-6 |
| P, X | IPSJ SIG Technical Reports 2004-DPS-117(16), (2004.03.04~05), Haoyi Wan et al., "Autonomous Topology Optimization and Recovery for Peer-to-Peer Networks" | 1-6 |
| A | IPSJ SIG Technical Reports 2003-UBI-2(15), 15 November, 2003 (15.11.03), Takeshi KATO et al., "Jupiter: Peer-to-Peer Networking Platform toward Ubiquitous Communications" | 1-6 |

 Further documents are listed in the continuation of Box C. See patent family annex.

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|---|---|
| * Special categories of cited documents: | |
| *A* document defining the general state of the art which is not considered to be of particular relevance | ^T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| *E* earlier application or patent but published on or after the international filing date | ^X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | ^Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| *O* document referring to an oral disclosure, use, exhibition or other means | |
| *P* document published prior to the international filing date but later than the priority date claimed | ^{&} document member of the same patent family |

Date of the actual completion of the international search
29 March, 2005 (29.03.05)Date of mailing of the international search report
12 April, 2005 (12.04.05)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| A | Electronic Proceeding for the 1st. International Workshop on Peer-to-Peer Systems (IPTPS '02), (7-8 March, 2002), MIT Faculty Club, Cambridge, MA, USA, Qin Lv et al., "Can Heterogeneity Make Gnutella Scalable?", [on-Line] http://www.cs.rice.edu/Conferences/IPTPS02 | 1-6 |
| A | 2003 IEEE Pacific Rim Conference on Communications, Computers, and Signal Processing (2003.08.28-30), Norihiro ISHIKAWA et al., "Semantic Content Search in P2P Networks based on RDF schema" | 1-6 |
| A | Technical Report of IEICE IN 2002-42, 12 July, 2002 (12.07.02), Nobutaka MATSUMOTO et al., "An Interest0-Oriented Bootstrap Method for Large-Scale Networked Vitrual Envionments" | 1-6 |
| E,A | JP 2004-258747 A (Nippon Telegraph And Telephone Corp.), 16 September, 2004 (16.09.04), (Family: none) | 1-6 |
| E,A | JP 2005-73067 A (Nippon Telegraph And Telephone Corp.) 17 March, 2005 (17.03.05), (Family: none) | 1-6 |